



SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	BPW product number	
Product name: BPW ECO-LI PLUS V2	02.1040.44.00 V2	02.1040.50.00
	02.1040.45.00	02.1040.49.00
	02.1040.47.00	

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Lubricating grease

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier	BPW Bergische Achsen KG Postfach 1280 D-51656 Wiehl
Telephone:	0049 (0) 2262-78-0
Fax:	0049 (0) 2262-78-1923
Contact Person:	Abteilung Arbeitssicherheit/Umweltmanagement (Mo-Fr, 08–16h)
Telephone:	0049 (0) 2262-78-1049
Fax:	0049 (0) 2262-78-4049
e-mail:	koestera@bpw.de

1.4 Emergency telephone number: 0049 (0) 2262-78-1049

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

|| The product has not been classified as hazardous, but needs to be labelled according to the legislation in force.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

The product is not classified according to Directive 67/548/EEC or Directive 1999/45/EC

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

|| EUH210: Safety data sheet available on request.

Product name: BPW ECO-LI PLUS

2.3 Other hazards: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Lubricating grease: Thickener system and additives in solvent refined mineral oil.

Chemical name	Concentration *	Identifier	REACH Registration No.	Notes
Triaryl thiophosphate	1,00 - <5,00%	209-909-9	01-2119979545-21	
Amine aromatic , alkylated	1,00 - <5,00%	Confidential	Confidential	
Phenol derivative	1,00 - <5,00%	Confidential	Confidential	
phosphoric ester derivative	1,00 - <2,50%	Confidential	Confidential	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	
Triaryl thiophosphate	DSD:	R53
	CLP:	Aquatic Chronic 4;H413
Amine aromatic , alkylated	DSD:	R52/53
	CLP:	Aquatic Chronic 3;H412
Phenol derivative	DSD:	R53
	CLP:	Aquatic Chronic 4;H413
phosphoric ester derivative	DSD:	Xi; R36/38 N; R51/53
	CLP:	Skin Irrit. 2;H315, Eye Irrit. 2;H319, Aquatic Chronic 2;H411

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.

The full text for all R-phrases and H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into cloth-pockets.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water. The product is not skin irritating.

Product name: BPW ECO-LI PLUS

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable tensides added

Unsuitable extinguishing media: Water with a full water jet.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Not required.

6.2 Environmental Precautions: Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up: Scrape up spillage or absorb with absorbing material. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.

6.4 Reference to other sections: See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Product name: BPW ECO-LI PLUS

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.
- 7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed.
- 7.3 Specific end use(s):** Not applicable
- Storage Class:** 11, Combustible solids

SECTION 8: Exposure controls/personal protection

- 8.1 Control Parameters**
 - Occupational Exposure Limits**

None of the components have assigned exposure limits.
- 8.2 Exposure controls**
 - Appropriate engineering controls:** No data available.
 - Individual protection measures, such as personal protective equipment**
 - General information:** Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.
 - Eye/face protection:** Safety glasses (EN 166) recommended during refilling.
 - Skin protection**
 - Hand Protection:** Nitrile butyl rubber (NBR). Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - Other:** Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
 - Respiratory Protection:** Not relevant, due to the form of the product.
 - Thermal hazards:** No data available.

Product name: BPW ECO-LI PLUS

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical State:	Solid
Form:	Paste
Color:	Dark blue
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	Not applicable
Melting Point:	No data available.
Boiling Point:	No data available.
Flash Point:	Not applicable
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	No data available.
Flammability Limit - Lower (%)-:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	0,90 g/ml (25,00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
NLGI:	2
Explosive properties:	No data available.
Oxidizing properties:	No data available.
9.2 Other information	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal temperature conditions and recommended use.
10.2 Chemical Stability:	No data available.
10.3 Possibility of Hazardous Reactions:	None under normal conditions.

Product name: BPW ECO-LI PLUS

- 10.4 Conditions to Avoid:** Avoid heat or contamination.
- 10.5 Incompatible Materials:** Strong oxidizing substances. Strong acids. Strong bases.
- 10.6 Hazardous Decomposition Products:** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information
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11.1 Information on toxicological effects

Acute Toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Triaryl thiophosphate	LD 50 (Rat): > 2.001 mg/kg
Amine aromatic , alkylated	LD 50 (Rat): > 2.001 mg/kg (OECD 401)
Phenol derivative	LD 50 (Rat): > 5.000 mg/kg
phosphoric ester derivative	LD 50 (Rat): > 2.001 mg/kg (OECD 401)

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	LD 50 (Rat): > 2.001 mg/kg
Phenol derivative	LD 50 (Rabbit): > 2.001 mg/kg (OECD 402)
phosphoric ester derivative	LD 50 (Rat): > 2.001 mg/kg (OECD 402)

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Product name: BPW ECO-LI PLUS

Repeated Dose Toxicity

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	OECD 404 (Rabbit): Not irritant.
Phenol derivative	No data available.
phosphoric ester derivative	OECD 404 (Rabbit): Irritating.

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	OECD 405 (Rabbit): Not irritant.
Phenol derivative	No data available.
phosphoric ester derivative	OECD 405 (Rabbit): Irritating.

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No sensitizing effect (guinea pig); OECD 406 (Guinea Pig)
Phenol derivative	Not a skin sensitizer.
phosphoric ester derivative	No data available.

Product name: BPW ECO-LI PLUS

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

In vivo

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Reproductive Toxicity

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Product name: BPW ECO-LI PLUS

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	LC 50 (Fish, 96 h): > 101 mg/l
Amine aromatic , alkylated	LC 50 (Fish, 96 h): > 71 mg/l
Phenol derivative	LC 50 (Fish, 96 h): > 101 mg/l (OECD 203)
phosphoric ester derivative	LC 50 (Fish, 96 h): 5,5 mg/l (OECD 203)

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	EC 50 (Water Flea, 48 h): > 101 mg/l
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Product name: BPW ECO-LI PLUS

Amine aromatic , alkylated	EC 50 (Water Flea, 48 h): 51 mg/l
Phenol derivative	EC 50 (Water Flea, 24 h): > 101 mg/l (OECD 202)
phosphoric ester derivative	EC 50 (Water Flea, 48 h): 1,2 mg/l (OECD 202)

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	EC 50 (Alga, 72 h): > 101 mg/l
Amine aromatic , alkylated	No data available.
Phenol derivative	EC 50 (Alga, 72 h): > 101 mg/l (OECD 201)
phosphoric ester derivative	EC 50 (Alga, 72 h): > 10 mg/l (OECD 201)

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	The product is slightly biodegradable.
phosphoric ester derivative	Not readily degradable.

Product name: BPW ECO-LI PLUS

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

12.5 Results of PBT and vPvB assessment: No data available.

Triaryl thiophosphate	No data available.
Amine aromatic , alkylated	No data available.
Phenol derivative	No data available.
phosphoric ester derivative	No data available.

12.6 Other Adverse Effects: No data available.

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

European Waste Codes

12 01 12*: spent waxes and fats

SECTION 14: Transport information

ADR/RID

Non-dangerous goods

Product name: BPW ECO-LI PLUS

ADN Non-dangerous goods
IMDG Non-dangerous goods
IATA Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: None

Regulation (EC) No. 850/2004 on persistent organic pollutants: None

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the R-phrases and H-statements in section 2 and 3

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.
- R36/38 Irritating to eyes and skin.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R53 May cause long-term adverse effects in the aquatic environment.

Training information: Follow training instructions when handling this material.

Other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Revision Date: 05.02.2015

Product name: BPW ECO-LI PLUS

Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.